

Fig. 1

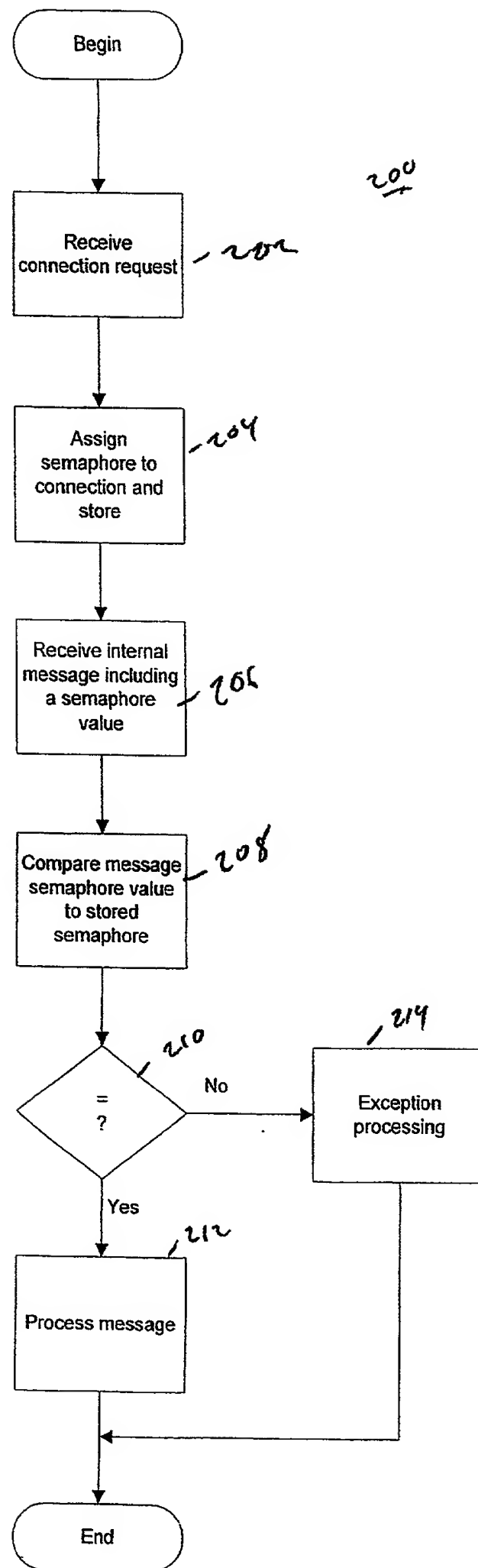


Fig. 2

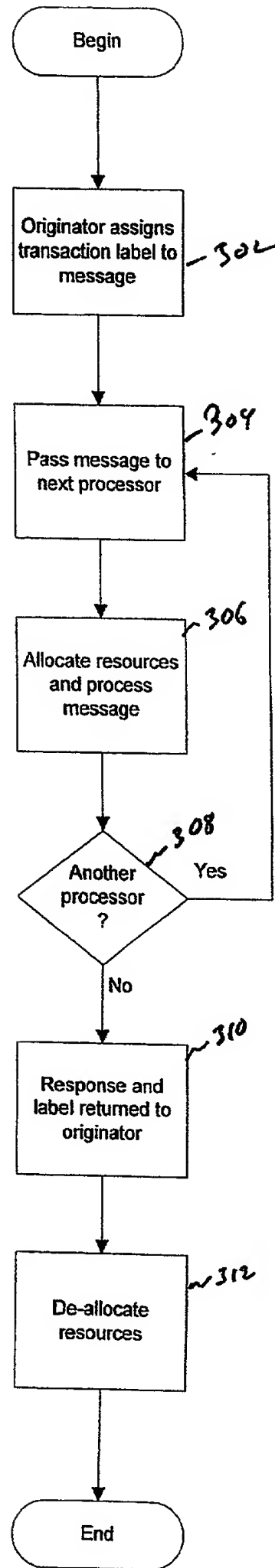


Fig. 3

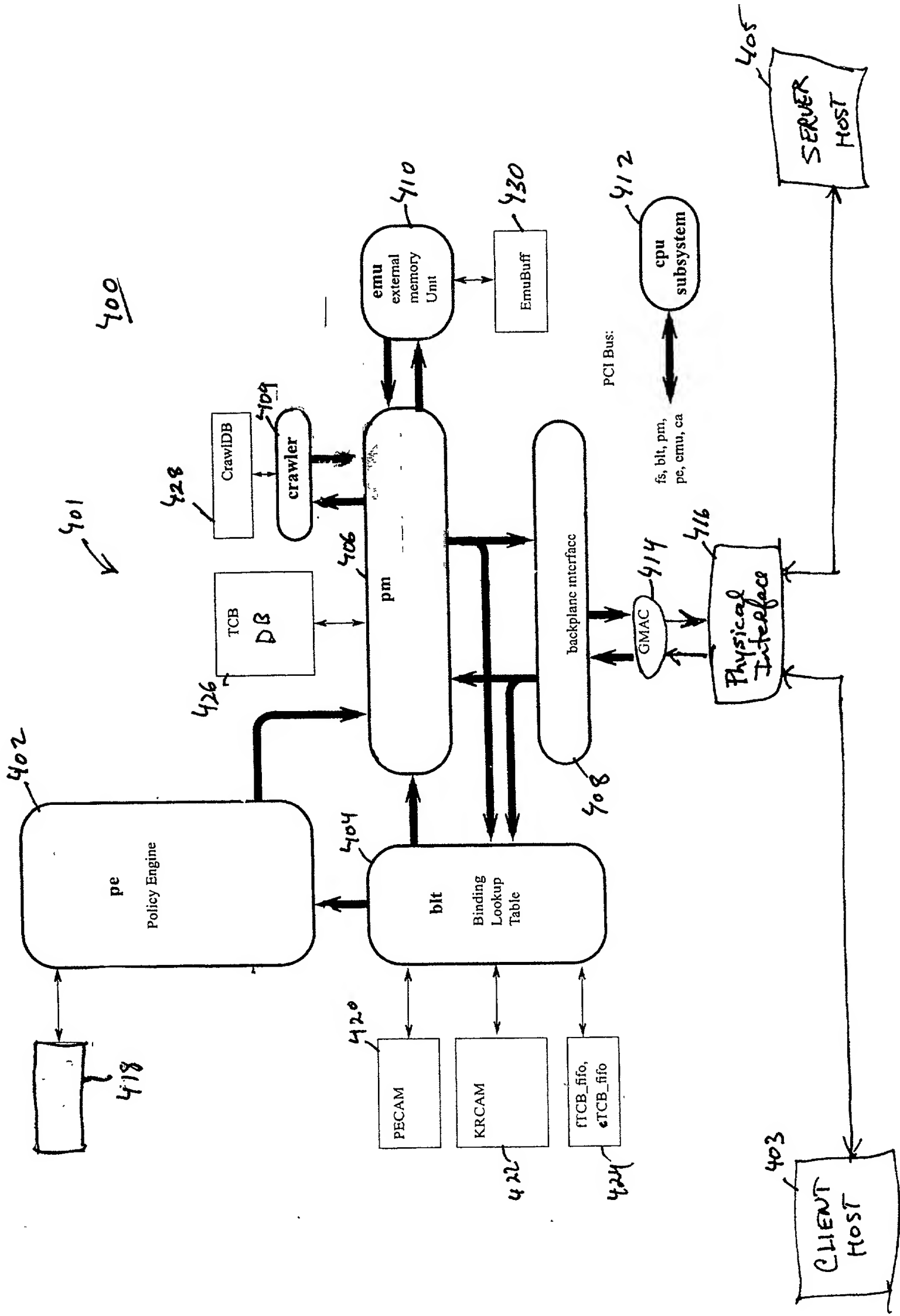


FIG. 4

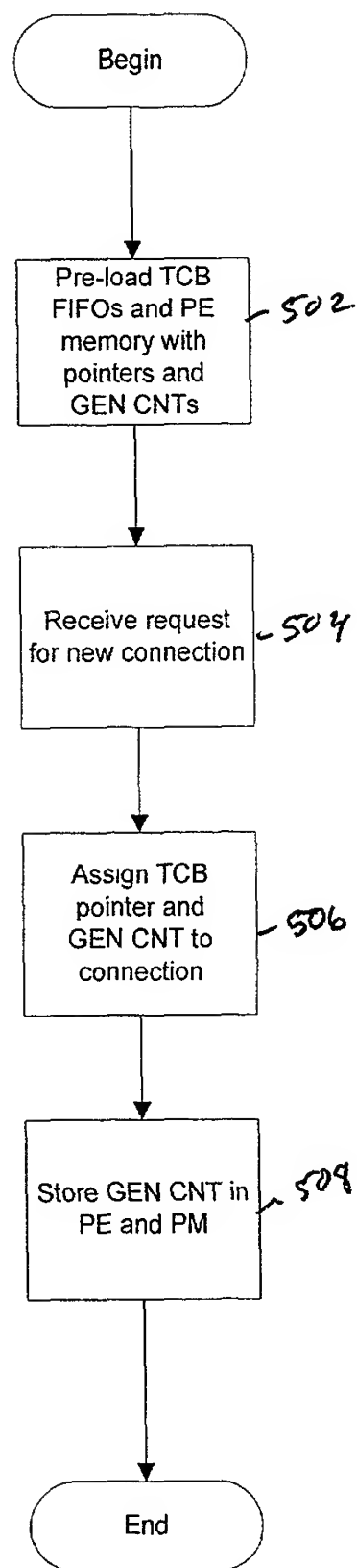


Fig. 5

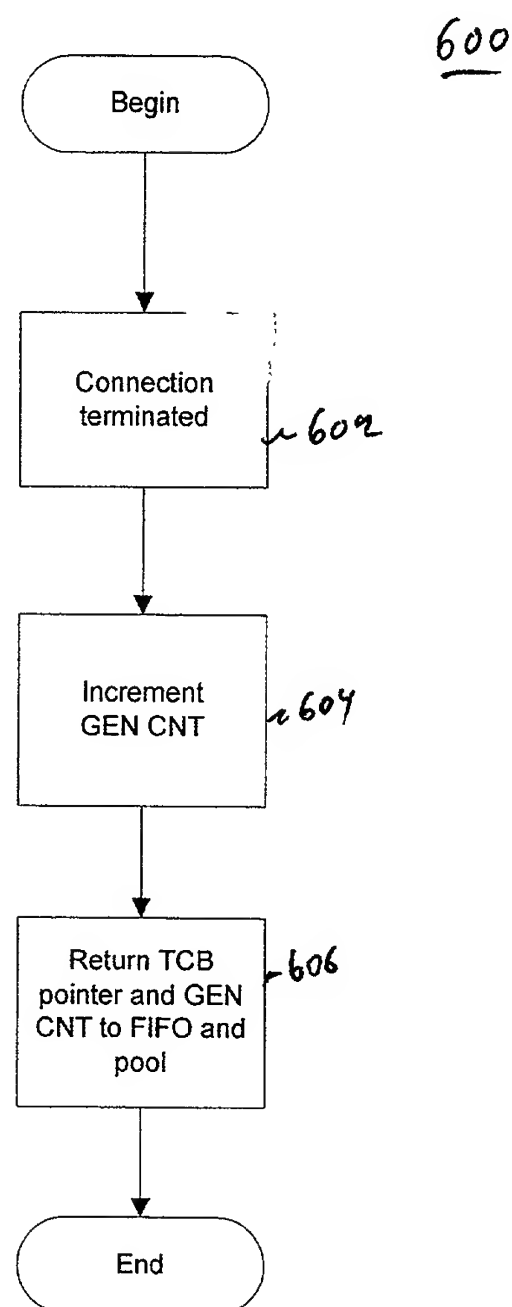
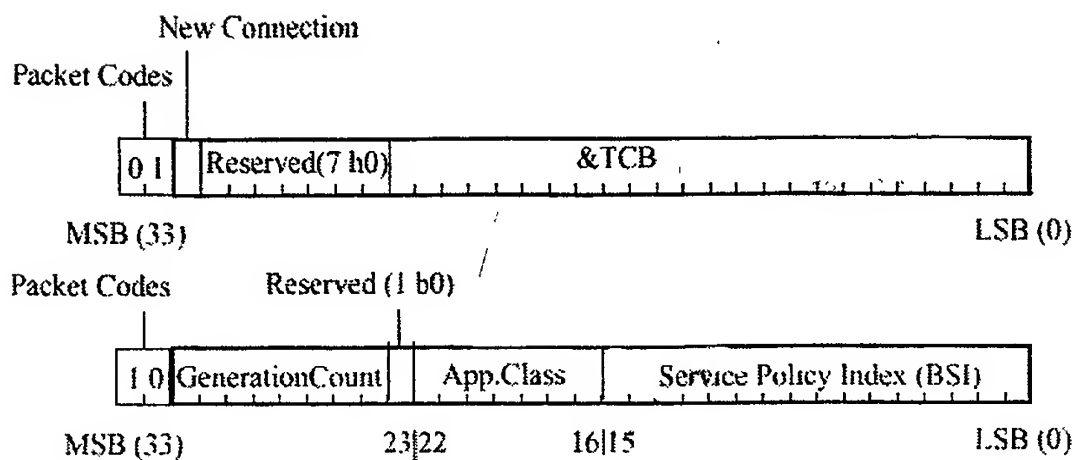


Fig. 6



Element	Bits	Description
Packet Codes	2	2'b11: Invalid/Reserved (for Timestamp, format TBD). 2'b01: Start of Packet: {new, &TCB} 2'b10: End of Packet: {application class, service policy index} 2'b00: Invalid/Reserved.
New Connection	1	Logic 1 indicates a newly established connection; Logic 0 indicates a "CAM Hit" on a currently active connection.
Reserved	as needed	Logic 0; Reserved
&TCB	24	Pointer to a Flow TCB or a Client TCB or a RST/DRP/IGN pointer.
Generation Count	8	Number of times this &TCB has been recycled.
Application Class	7	Application Class field from Service Lookaside CAM.
Service Policy Index	16	Service Policy Index from Service Lookaside CAM (a.k.a. "BSI").

FIG. 7g

6-bit Packet Tags	6-bit Message Tags	64-bit Packet Data			
SOM	COM	&xTCB		Proto	Src IP Address
SPM	NOP	tlablel	Service Policy		Reserved Server Index
SHM	NOP	Reserved		GenCnt	History Pointer
EOM	NOP	Dest IP Address		Src Port #	Dest Port #

Service Policy is a 22-bit quantity;
Bit number 57 in the upper SPM Reserved Field is used to indicate the client flag ;
tlablel is a 6-bit Transaction Label to be returned to Pakman upon completion of COM;
All other Data fields are aligned on 8-bit boundaries as indicated by the | marks.

Marker Packet Queue Tags Summary

Encoding	Bits	Description
SOM	6	Start Of Marker Packet: &TCB + Protocol + Src IP Address
SPM	6	Service Policy Marker: Client Flag + 22-bit Service Policy + 16 bit Server Index.
SHM	6	Service History Marker: 32-bit Reserved Field + 32-bit History Pointer
EOM	6	End of Marker Packet: Dest IP Address + Src and Dest Ports
COM	6	Command: Options appear in table 5-2 below; usually DELETE.
NOP	6	Logic 0; Reserved; Ignore Packet Data and Message Tags

Marker Packet Queue COM Options Summary

Encoding	Bits	Description
ADD	6	Associate the &xTCB with the 5-tuple Key, and return the transaction label back to Pakman.
DEL	6	Delete the association of the 5-tuple Key. (&xTCB not required) Return the transaction label back to Pakman.
PASS	6	Send Delete Datagram to PE, but do not change state of BLT CAM's.
NOP	6	Logic 0; Reserved

FIG. 7b

- BLT - PE Post Format for delete the connection

33	32/31	30/29	24/23	16	0
SOP	CMD	TLABEL	&TCB		
MOP	GEN_CNT			Service Policy	
MOP	TIP				
MOP	Server Index			TP	
EOP		History Ptr			

- Posted Write Data element summary

Element	Bits	Description
CMD	2	CMD - 1 Server Delete CMD - 2 Client Delete
TLABEL	6	Labels for add or delete
Service Policy	22	Service policy index for mapping to Server IP Address
Server Index	16	Address pointer to locate the server table
TIP	32	Talisman's IP address
TP	16	Talisman's Port
&TCB	24	TCB Address Pointer
Time Stamp	32	TBD

- BLT - PE Post Format for new service

33	32/31	30/29	23/22	16/15	0
01	SOP	CMD	reserved	Class	Service Policy
00	MOP	SrcIP			
00	MOP	GEN_CNT	&TCB		
10	EOP	reserve			SrcPort

- Posted Write Data element summary

Element	Bits	Description
CMD	2	CMD - 0 &TCB, New Service
Service Policy	16	Service policy index for mapping to Server IP Address
SrcIP	32	Client IP Address that request for service
&TCB	24	Flow TCB Address Pointer
Time Stamp	32	For tracking the packet inside each block. TBD

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New Packet

33 32/31 30/29 24/23 0

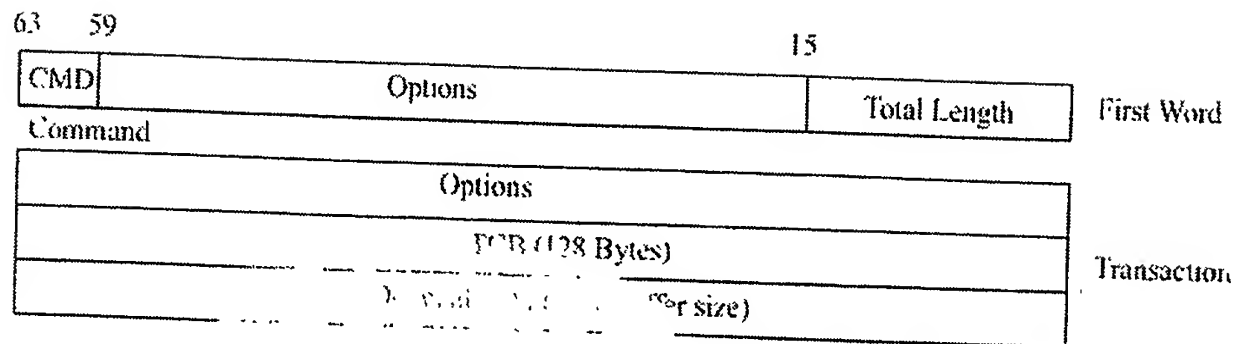
SOP	CMD		Null	&fTCB or &sTCB	
MOP	&cTCB				
MOP	SrcIP				
MOP	TIP				
MOP	ServerIP				
MOP	TPO			ServerPO	
MOP	Tsequence				
MOP	MAC Address				
MOP	Vlan Tag			MAC Address (High two byte)	
MOP	GEN_CNT			Server Index	
MOP				CSLBSI	
EOP		History Pointer			

For Delete Packet

33	32/31	30/29	24/23	0
SOP	CMD	Tlabel	&fTCB or &sTCB	

FIG. 7d

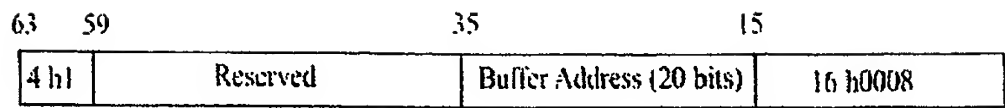
PM - EMU Post Format



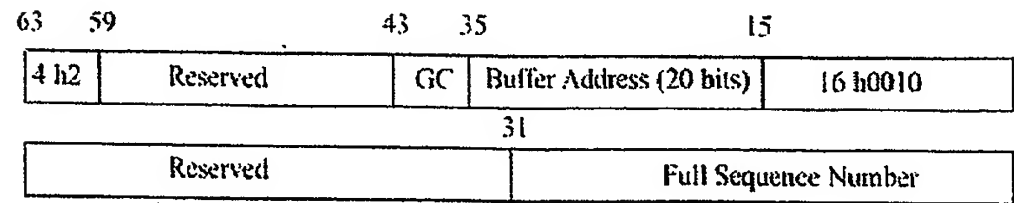
PM Commands to EMU

Command Name	Command field	Required Fields
PakMan ^{PM} Reset	'h1	Buffer Number
PakMan ^{PM} LockSN	'h2	Buffer Number, Generation Count and Sequence Number
PakMan ^{PM} Read	'h3	Buffer Number and Generation Count
PakMan ^{PM} Purge	'h4	Buffer Number
PakMan ^{PM} Post with DefAck	'h5	Buffer Number, Generation Count, Sequence Number, TCB and DATA
PakMan ^{PM} Post	'h6	Buffer Number, Generation Count, Sequence Number, TCB and DATA
PakMan ^{PM} Post with LockSN	'h7	Buffer Number, Generation Count, Sequence Number, TCB and DATA

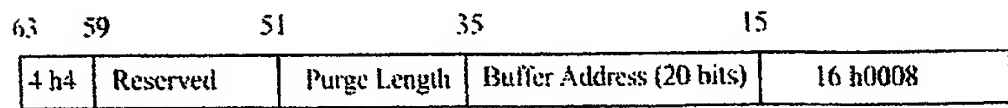
FIG. 7e



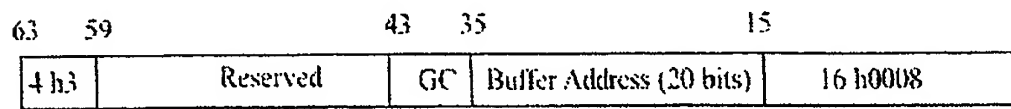
PM Reset Command



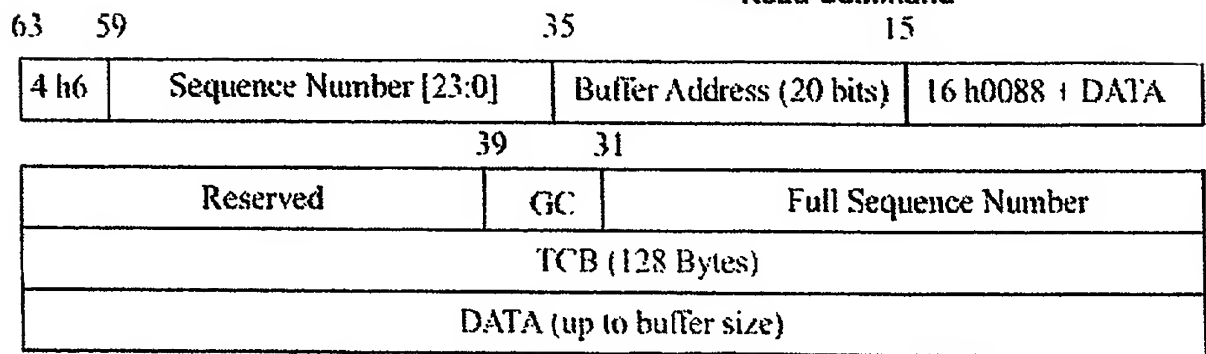
PM Lock SN Command



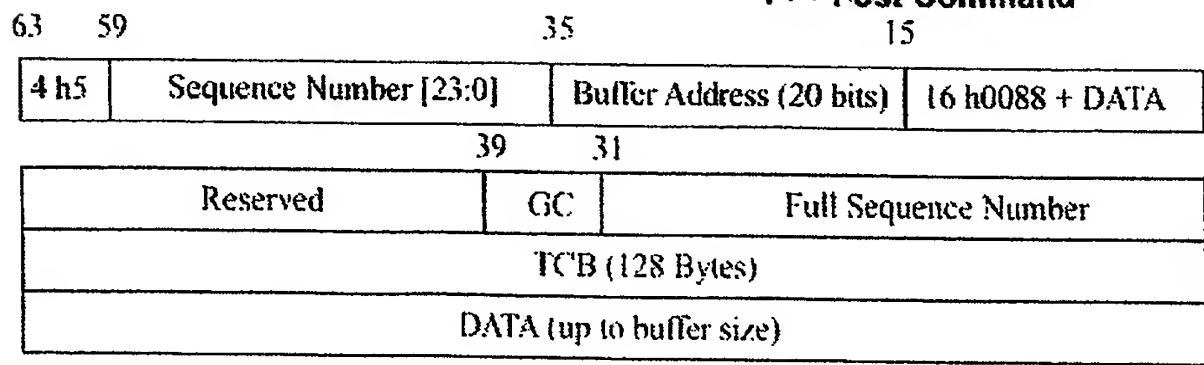
PM Purge Command



PM Read Command



PM Post Command



PM Post with Deferred Ack Command

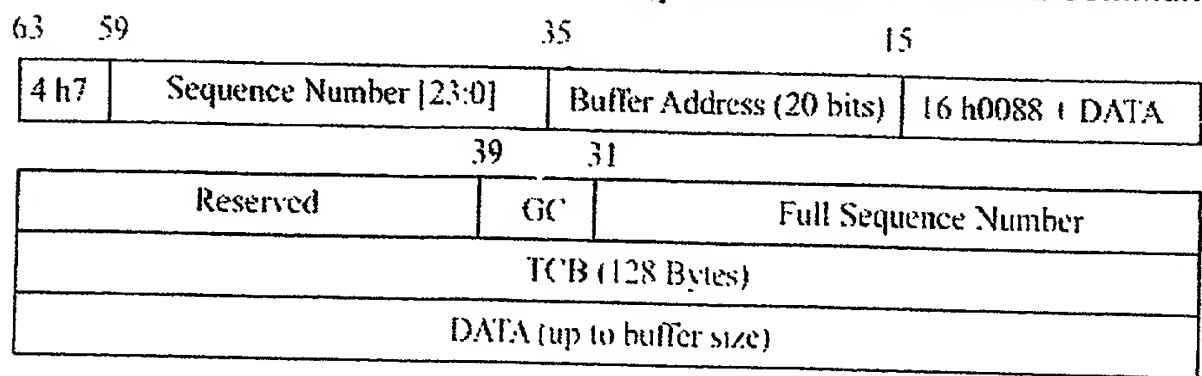


FIG. 7f

PM Post with Lock SN Command

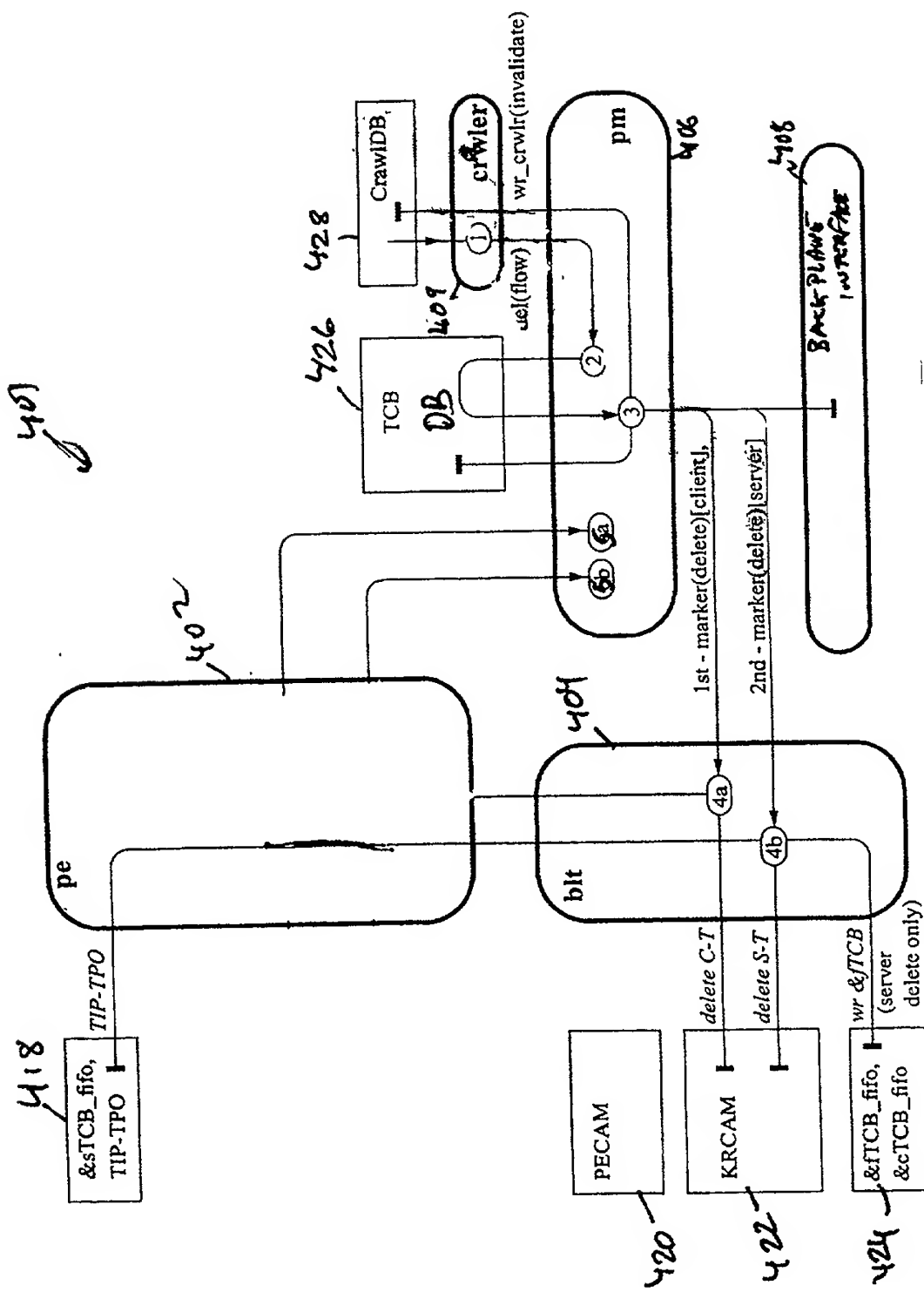
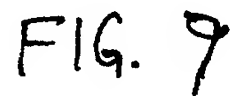


FIG. 8



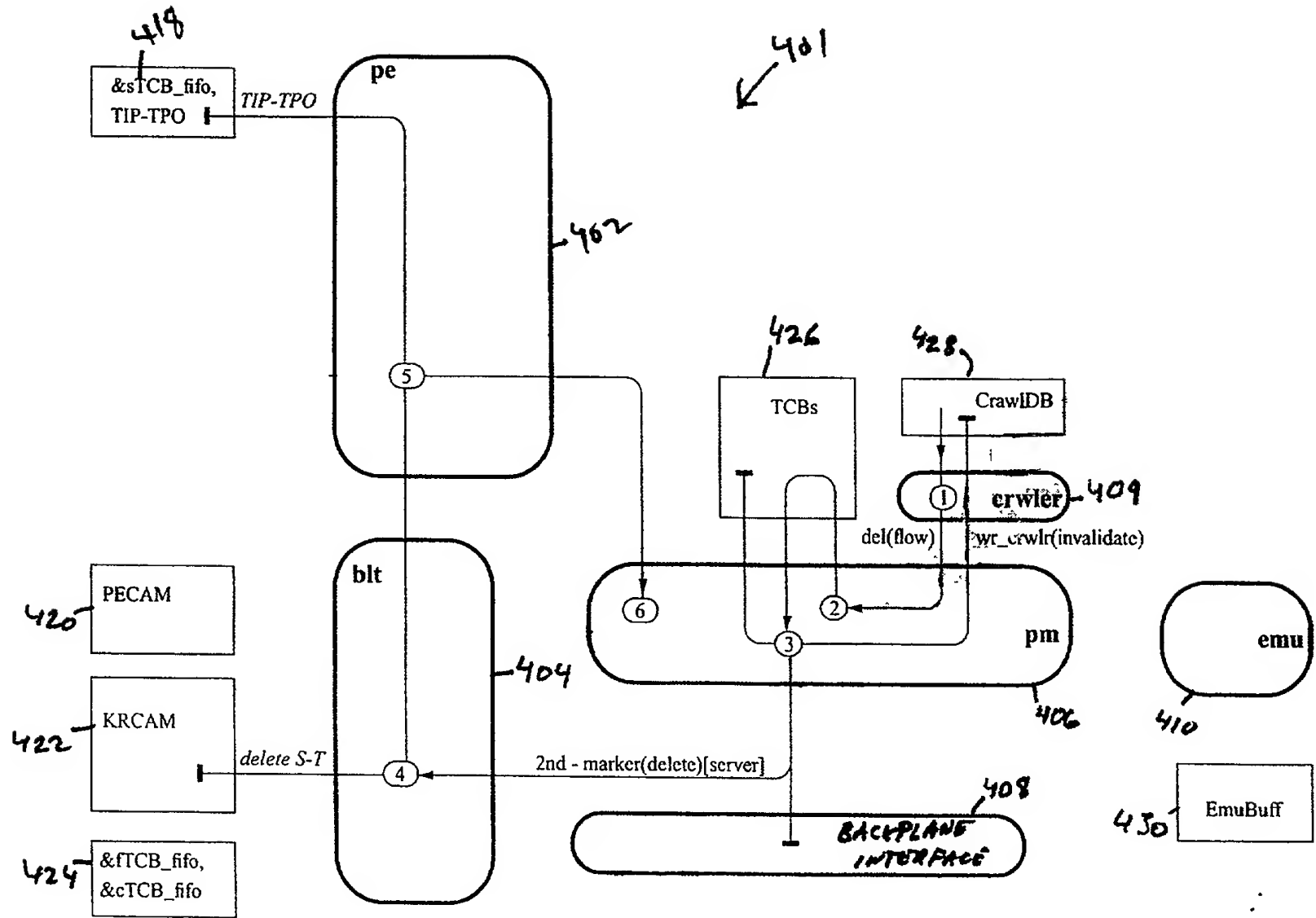


FIG. 80